

AMENDMENTS TO THE SPECIFICATION:

Please delete the heading beginning on page 1, line 1.

Page 1, after the title, please insert the following heading, paragraph and heading:

--CROSS REFERENCE TO RELATED APPLICATION--

--This is the 35 USC 371 national stage of international application PCT/DE03/00580 filed on 24 February 2003, which designated the United States of America.--

--FIELD OF THE INVENTION--

Page 1, before line 10, please insert the following heading:

--BACKGROUND OF THE INVENTION--

Page 2, after line 15, please insert the following paragraph:

--From [11] it is known that the coherence of a PMD illuminating light beam must be reduced.--

Page 4, after line 5, please insert the following heading:

--SUMMARY OF THE INVENTION--

Please replace the paragraph beginning at page 6, line 19, with the following heading, paragraph and heading:

--BRIEF DESCRIPTION OF THE DRAWINGS--

--The invention is explained in greater detail with reference to the accompanying drawings and embodiments, in which;

- Figure 1** shows the errors that must be observed in an optical measuring method with an electro-optical mixer
- Figure 2** shows a graph for showing the reduction of the measuring error for a distance measurement with one of the embodiments of the invention explained below
- Figure 3** shows a schematic diagram of the invention
- Figure 4** shows a diagram of the reduction in coherence on the receiver side with an EOM
- Figure 5** shows a first exemplary device which allows a reduction in coherence on the receiver side
- Figure 6** shows a second exemplary device which enables a reduction in coherence on the receiver side.--

--DETAILED DESCRIPTION OF THE INVENTION--

Page 10, after line 37, please insert the following paragraph:

--[11] "PMD-PLL: receiver structure for incoherent communication and ranging system" Optical Wireless Communications Communication II, Sept. 1999 p. 116 - 127" B. Buxbaum, R. Schwarte, T. Ringbeck-